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## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

1. (Currently Amended) A method of reducing the permeability of a subterranean formation to aqueous-based fluids during the drilling phase comprising the steps of:
  - providing a water-soluble relative permeability modifier that comprises a hydrophobically modified polymer, wherein the hydrophobically modified polymer comprises a polymer backbone that comprises polar heteroatoms,
  - placing the water-soluble relative permeability modifier into the subterranean formation during the drilling phase, and
  - allowing the water-soluble relative permeability modifier to adsorb onto a surface within interact with at least a portion of the subterranean formation thereby reducing the permeability of at least a portion of that portion of the subterranean formation to aqueous-based fluids.
2. (Original) The method of claim 1 wherein the hydrophobically modified polymer has a molecular weight in the range of from about 100,000 to about 10,000,000.
3. (Previously Presented) The method of claim 1 wherein the polar heteroatoms are selected from the group consisting of oxygen, nitrogen, sulfur, and phosphorous.
4. (Original) The method of claim 1 wherein the hydrophobically modified polymer is a reaction product of a hydrophobic compound and a hydrophilic polymer that comprises a polymer backbone comprising polar heteroatoms.
5. (Previously Presented) The method of claim 4 wherein the hydrophilic polymer is selected from the group consisting of a cellulose, a chitosan, a polyamide, a polyetheramine, a polyethyleneimine, a polyhydroxyetheramine, a polylysine, a polysulfone, and a starch.
6. (Previously Presented) The method of claim 4 wherein the hydrophobic compound is selected from the group consisting of an alkyl halide, a sulfonate, a sulfate, and an organic acid derivative.
7. (Withdrawn) The method of claim 6 wherein the organic acid derivative comprises an octenyl succinic acid; a dodecenyl succinic acid; or an anhydride, ester, or amide of octenyl succinic acid or dodecenyl succinic acid.